PayPal™

Button Manager API (NVP)

Last updated: April 2012

Button Manager NVP API

Document Number: 10089.en_US-201204

Contents

Preface

This document describes the Button Manager API for NVP.

Intended Audience

This document is intended for merchants and developers implementing PayPal Payment Standard (previously known as Website Payments Standard) buttons using an API.

Revision History

Revision history for *Button Manager API (NVP).*

TABLE P.1 Revision History

Date	Description
04/03/12	Updated references to Website Payments Standard and Website Payments Pro to PayPal Payments Standard and PayPal Payments Pro, respectively.
02/13/12	Maintenance release.
05/10/10	Added information about installment plans, automatic billing, and subscribe buttons.
02/03/10	Added error code.
01/11/10	Added download key information and updated for version 61.0.
06/03/09	Added HTML Variable appendix and updated for version 57.0.
03/31/09	Initial draft.

1 PayPal Payments Standard Button Manager API Overview

The PayPal Payments Standard (previously known as Website Payments Standard) Button Manager API lets you programatically create, manage, edit, and delete PayPal Payment Standard buttons, which are the same kind of buttons that you can create from the PayPal Profile. Hosted buttons created by this API reside on PayPal and can use all features, including inventory management; however, you can use this API to create code for non-hosted Standard buttons as well.

- Button Manager Introduction
- Generated Button Code
- Button Hosting
- Hosted Button Manipulation
- Inventory Management Using Hosted Buttons
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- Button Manager API Summary
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- Granting Third-Party Permission for APIs

Button Manager Introduction

You should consider creating and managing your buttons with the Button Manager API when you are creating more than just a few PayPal Payment Standard buttons or when you manage buttons for others; for example, if you provide a shopping cart for merchants.

The Button Manager API enables you to manage PayPal Payment Standard buttons programatically in the same way that you can manage them on PayPal from the My Saved Buttons page of your Profile.

NOTE: You can access your My Saved Buttons page on PayPal by choosing **My Saved Buttons** from the Profile's **My selling tools**. If no buttons exist, the menu item is **Create New Button**.

You can use the API to create these Website Payment Standard and Hosted Sole Solution buttons:

- **Buy Now**
- **Add to Cart** and **View Cart**
- **Donate**
- **Buy Gift Certificate**

- **Subscribe** and **Unsubscribe**
- **Pay Now** (Hosted Sole Solution only)
- **Installment Plan**
- **Automatic Billing**

The following buttons are some of those that you can create using the Button Manager API:
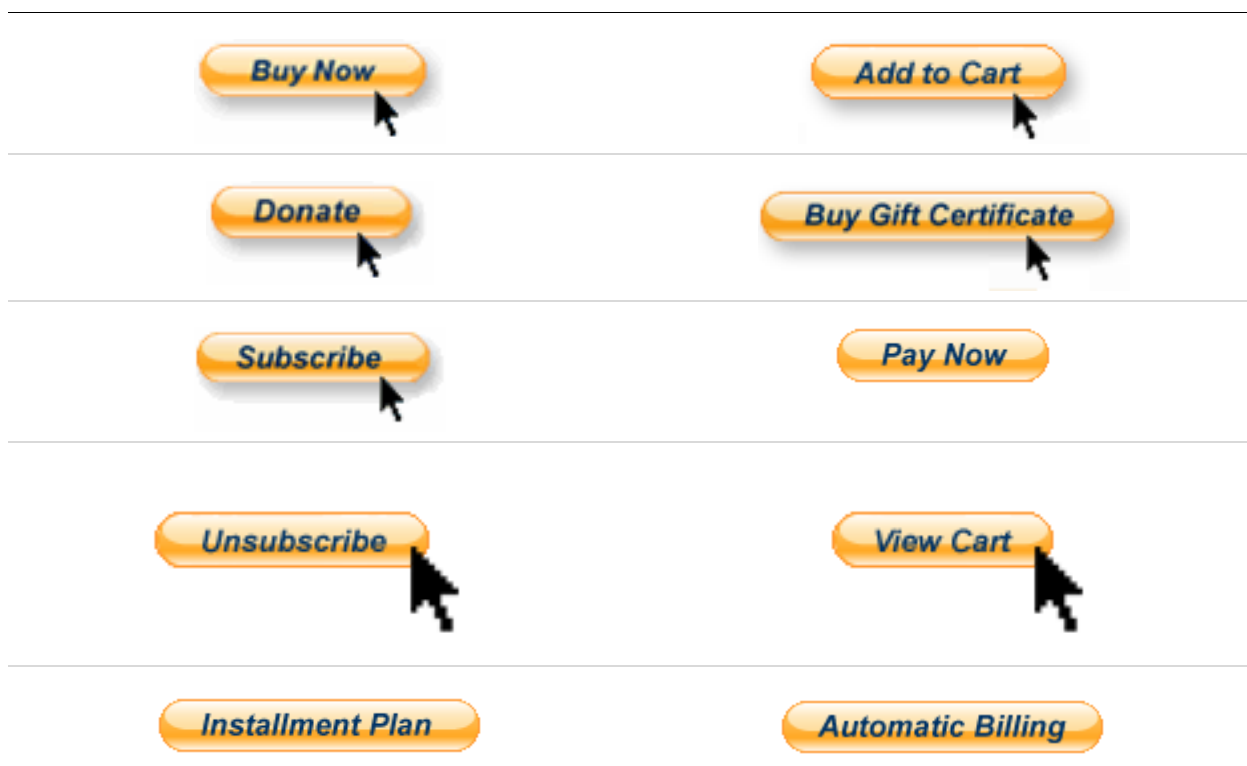
Generated Button Code

When you create a button, PayPal responds by generating code that you can paste into your web page or document.

The generated code includes:

- HTML code for including the button in web pages
- URL link code for adding buttons to email and documents that support links

NOTE: Not all merchants in every country can use all the buttons that can be created. For example, German merchants cannot use **Subscribe** buttons even though they can be

created through the API. If you can create the button for the specified country using Create PayPal payment button on PayPal, your merchant will be able to use the button.

This example shows the PayPal code for displaying a hosted **Add to Cart** button to sell a wireless mouse:

```
<form target="paypal" action="https://www.sandbox.paypal.com/cgi-
bin/webscr" method="post">
<input type="hidden" name="cmd" value="_s-xclick">
<input type="hidden" name="hosted_button_id" value="19218">
<table>
<tr><td><input type="hidden" name="on0"
value="Color">Color</td></tr><tr><td><select name="os0">
  <option value="Red">Red $10.00
  <option value="Blue">Blue $8.00
  <option value="Green">Green $12.00
</select> </td></tr>
<tr><td><input type="hidden" name="on1"
value="Size">Size</td></tr><tr><td><select name="os1">
  <option value="Small">Small
  <option value="Large">Large
</select> </td></tr>
</table>
<input type="hidden" name="currency_code" value="USD">
<input type="image"
src="https://www.sandbox.paypal.com/en_US/i/btn/btn_cart_LG.gif" border="0"
name="submit" alt="">
<img alt="" border="0"
src="https://www.sandbox.paypal.com/en_US/i/scr/pixel.gif" width="1"
height="1">
</form>
```

When you display a web page with this code, this button appears:

PayPal-generated code for a link would be as follows:

```
https://www.sandbox.paypal.com/cgi-bin/webscr?cmd=_s-
xclick&hosted_button_id=19218
```

For a link, PayPal does not generate code for options.

Button Hosting

The Button Manager API can create four kinds of buttons: hosted, encrypted, clear text, and token buttons. Buttons that you can view on the My Saved Buttons page of your PayPal profile are called *hosted* buttons.

- **Hosted buttons** are stored on PayPal. The parameters associated with this kind of button are secure.

  Hosted buttons provide the greatest flexibility because you can instruct PayPal to change them dynamically, and PayPal maintains information about their state, such as the inventory level associated with the button.

  NOTE: You cannot use hosted buttons with Hosted Sole Solution; you should use token buttons instead.

- **Encrypted buttons** are not stored on PayPal. The parameters associated with this kind of button are encrypted.

  Encrypted buttons are similar to hosted buttons with regard to secure operation; however, you must update the web pages that use an encrypted button each time the button or its associated information changes. You should use an encrypted button only if a hosted button cannot be used.

- **Clear text buttons** are not stored on PayPal. The parameters associated with this kind of button are not encrypted.

  Clear text buttons are not hosted and are not encrypted. They can be used dynamically because you can change the value of a parameter "on the fly." However, if you use them, recognize the risk that sensitive information can be altered or stolen.

- **Token buttons** are not stored on PayPal. They are only used with Hosted Solution and the parameters associated with this kind of button are secure.

  Token buttons are dynamic and initiate the Hosted Solution checkout flow. They have a lifetime of approximately 2 hours if not used.

Hosted Button Manipulation

When you create a hosted button, the response includes an ID that allows you to manipulate the button using the Button Manager API. Do not confuse a hosted button with a button used as part of Hosted Solution, which is a product that supports token, encrypted, and cleartext buttons.

With hosted buttons, you can:

- Get a list of all hosted buttons, which lets you identify buttons for further programmatic manipulation
- Get details about a hosted button, which lets you to identify the parameters and values associated with a button

- Update a hosted button, which lets you to change individual parameters, such as price, in a hosted button

- Manage hosted button status; currently, you can only delete a button

- Get and set inventory information associated with the button

Inventory Management Using Hosted Buttons

You can get or set the inventory level for the item associated with a hosted button. You can also track inventory on options within an item, such as color or size.

If you enable inventory management for a button, PayPal tracks inventory for you and also lets your buyer know if the item is sold out. You can specify inventory tracking on an item-by-item basis, and also by option, such as color or size, within the item.

An e-mail alerts you if inventory falls below the threshold you specify. If an item is sold out, you can specify whether or not to accept a payment anyway. Optionally, you can specify a URL where your buyer's browser is redirected if the item is sold out.

You can also enable profit and loss tracking for an item or option associated with a button. If you enable this feature, you must provide the cost of the item or option. PayPal then calculates your gross profit, which is the selling price of the item less the specified cost.

Inventory Management for Digital Downloads

If you use hosted buttons, you can chose to specify a list of download keys, which are keys that you define and are associated with the item being sold. These keys are useful when you want to sell digital goods with a key to enable access.

To use this feature, you set the inventory for the button to include one or more download keys, up to a maximum of 1,000 keys. These keys are then available when you get the inventory for a button.

For example, when a customer orders software or music, you could obtain an unused key from the list of download keys and email it to your customer so they can download the item. You are responsible for choosing the appropriate key from the list and how it is used. PayPal only stores the inventory of keys and does not track how a specific key is used, although PayPal does provide options for making this process simpler.

When you specify the inventory for a button, you can specify the usage of download keys:

- Whether the keys you specify should be appended to the current list of keys or whether the list of keys should be replaced, which allows you to replenish the list of keys or replace the list entirely

- Whether the list of keys are to be reused or not

If you do not reuse keys, PayPal will also notify you when the item is "sold out," meaning that there are no more keys available.

Specifying download keys with NVP

The following example shows how you might create several keys using the `BMSetButtonInventory` API operation:

```
METHOD=BMSetInventory
...
HOSTEDBUTTONID=49760
REUSEDIGITALDOWNLOADKEYS=0
APPENDDIGITALDOWNLOADKEYS=1
L_DIGITALDOWNLOADKEYS0=3tsnheostenthueirue97987ueitheunth
L_DIGITALDOWNLOADKEYS1=
L_DIGITALDOWNLOADKEYS2=3tsnh
L_DIGITALDOWNLOADKEYS3=3tsnh0923nth2349oeunh
```

These keys are appended to existing keys for the item and should not be reused.

Button Manager API Summary

The Button Manager API is available for both NVP and SOAP.

API Operation	Description
BMCreateButton	Create button code
BMUpdateButton	Update a hosted button
BMManageButtonStatus	Delete a button
BMGetButtonDetails	Obtain information about the parameters associated with a button
BMButtonSearch	Obtain a list of all buttons
BMGetInventory	Obtain the inventory levels associated with a button
BMSetInventory	Specify the inventory levels associated with a button

Hosted Solution Links

Hosted Solution links are URLs you create with the Button Manager API to initiate the Hosted Solution checkout flow.

NOTE: Although you can use the Button Manager API to create buttons that initiate the Hosted Solution checkout flow, do not confuse a button for Hosted Solution with hosted buttons that you also create with the Button Manager API.

You create the Hosted Solution checkout link dynamically when your buyer attempts to check out. For example, when your buyer clicks your check out button, you call the `BMCreateButton` API operation to create the link and then redirect the buyer's browser to PayPal using the link. The buyer then pays on the PayPal Hosted Solution page. After making the payment, PayPal returns the buyer to the page you specified when you created the link.

HTML variables control the presentation of the Hosted Solution pages, the information contained on the pages, and pages to which your customer can be returned to when leaving Hosted Solution pages. For an example of setting up HTML variables, see Using the Button Manager API With Hosted Solution Checkout. For more information about Hosted Solution and the HTML variables that you can use, see the *Hosted Solution Guide*.

Granting Third-Party Permission for APIs

If you allow a shopping cart or another party to create buttons on your behalf, you must grant the party permission to execute Button Manager API operations for you.

To grant third-party permissions

1. Log in to your PayPal account.

2. Select **My Account Profile**.

3. Click **API Access** from the Profile Summary.

4. Click **Grant API Permission**.

5. Click **Configure a custom API authorization**.

6. Enter your Partner API username, as specified by your shopping cart or third party.

7. Check each Button Manager API you want to provide access to:

8. Click **Submit**.

2 Using the Button Manager API With NVP

These examples show basic Button Manager API capabilities. The examples show how to create buttons and set inventory levels.

- Specifying HTML Variables
- Creating a Button Using NVP
- Offering Multiple Payment Option Subscriptions Using NVP
- Offering Installment Plans Using NVP
- Offering Automatic Billing Using NVP
- Tracking Inventory for Menu Items Using NVP
- Using the Button Manager API With Hosted Solution Checkout

Specifying HTML Variables

When you create or update a button using the Button Manager API, you must specify the same HTML variables that you specify when creating any PayPal Payments Standard button. Although you can use the `L_BUTTONVAR`*n* field to specify any HTML variables, some variables are commonly used in specific ways.

The following table provides additional information about some of these variables:

HTML Variable	Notes
`item_name`	Name or description of item. Must be specified for **Add to Cart** buttons. Character length and limitations: 127 single-byte alphanumeric characters.
`amount`	The price or amount of the item. Required for **Add to Cart** buttons. May not be used when a dropdown with price (`L_OPTION0PRICE`*n*) is defined. Limitations: Value must be a positive number. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).
`a3`	Price of subscription. Must be specified for **Subscribe** buttons. Value must be a positive number. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).
`p3`	Regular billing cycle. Must be specified for **Subscribe** buttons. Limitations: Must be a positive integer greater than 0 and less than or equal to 30
`t3`	Regular billing cycle units. Must be specified for **Subscribe** buttons.

HTML Variable	Notes
shopping_url	URL where recipients can shop and redeem gift certificates. Required for **Gift Certificate** buttons. Character length and limitations: 255 single-byte alphanumeric characters
no_note	Must be specified for **Subscribe** buttons. Enables a subscriber to not be prompted to include a note with the subscription, a function which PayPal subscriptions does not support. This variable must be included, and the value must be set to 1.
business	Secure Merchant ID or Email Address. When omitted, defaults to the secure merchant ID of the merchant. If an email address is specified then it the following requirements apply: ● A merchant or 3rd Party calling the API directly may specify an unregistered email and create an unencrypted button only. ● A 3rd Party calling the API on behalf of a registered merchant must specify an email address associated with the merchant account. Character length and limitations: 127 single-byte characters.
item_number	Item number or ID. Character length and limitations: 127 single-byte alphanumeric characters.
lc	If specified, it overrides the value set in the BUTTONCODE field.

For a complete list of HTML variables and complete information, see [HTML Variables for PayPal Payments Standard](#).

Creating a Button Using NVP

The example shows the NVP parameters for creating a hosted **Add to Cart** button of the standard size. The button is also associated with menu items.

```
...
BUTTONCODE=HOSTED
BUTTONTYPE=CART
L_BUTTONVAR0=business=merchant@abc.com
L_BUTTONVAR1=item_name=Wireless%20Mouse
L_BUTTONVAR2=amount=10.50
L_BUTTONVAR3=no_shipping=1
L_BUTTONVAR4=currency_code=USD
L_BUTTONVAR5=no_note=1
OPTION0NAME=Color
L_OPTION0SELECT0=Red
L_OPTION0SELECT1=Blue
L_OPTION0SELECT2=Green
L_OPTION0PRICE0=10.00
L_OPTION0PRICE1=8.00
L_OPTION0PRICE2=12.00
```

```
OPTION1NAME=Size
L_OPTION1SELECT0=Small
L_OPTION1SELECT1=Large
BUTTONIMAGE=reg
...
```

The button includes menus that allow you to specify the color and size. Each color is associated with a specific price. The button variables (`L_BUTTONVAR0`, and such), enable you to specify the same HTML variables as you ordinarily do using PayPal Payments Standard.

Offering Multiple Payment Option Subscriptions Using NVP

The example shows how to create a **Subscribe** button for 3 kinds of payment options.

```
...
BUTTONTYPE value=SUBSCRIBE
OPTION0NAME value="Special TV"
L_OPTION0SELECT0 value="Regular"
L_OPTION0PRICE0 value="12.30"
L_OPTION0BILLINGPERIOD0 value="Month"
L_OPTION0SELECT1 value="Super"
L_OPTION0PRICE1 value="1.30"
L_OPTION1BILLINGPERIOD0 value="Month"
L_OPTION0SELECT2 value="Premium"
L_OPTION0PRICE2 value="1.30"
L_OPTION2BILLINGPERIOD0 value="Month"
...
```

Offering Installment Plans Using NVP

The example shows how to offer installment plans for both variable installments and equal monthly installments, as well as payment in full. Various billing cycles and frequencies are allowed.

```
...
L_BUTTONVAR1 value="item_name=Example"
BUTTONTYPE value=PAYMENTPLAN
OPTION0NAME value="Special Televesion"
L_OPTION0SELECT0 value="First"
L_OPTION0PRICE0 value="12.00"
OPTION0TYPE value="FULL"
OPTION1TYPE value="EMI"
L_OPTION0SELECT1 value="Second"
L_OPTION1AMOUNT0 value=12.23
L_OPTION1BILLINGFREQUENCY0 value=2
L_OPTION1BILLINGPERIOD0 value=Month
```

```
L_OPTION1TOTALBILLINGCYCLES0 value=2
L_OPTION0SELECT2 value="Third"
OPTION2TYPE value="VARIABLE"
L_OPTION2AMOUNT0 value="33.12"
L_OPTION2BILLINGFREQUENCY0 value=1
L_OPTION2BILLINGPERIOD0 value=Month
L_OPTION2TOTALBILLINGCYCLES0 value=1
L_OPTION2AMOUNT1 value="32.34"
L_OPTION2BILLINGFREQUENCY1 value=2
L_OPTION2BILLINGPERIOD1 value=Month
L_OPTION2TOTALBILLINGCYCLES1 value=1
L_OPTION2AMOUNT2 value="31.34"
L_OPTION2BILLINGFREQUENCY2 value=3
L_OPTION2BILLINGPERIOD2 value=Month
L_OPTION2TOTALBILLINGCYCLES2 value=1
L_OPTION2AMOUNT3 value="3.34"
L_OPTION2BILLINGFREQUENCY3 value=4
L_OPTION2BILLINGPERIOD3 value=Month
L_OPTION2TOTALBILLINGCYCLES3 value=1
L_OPTION0SELECT3 value="Fourth"
OPTION3TYPE value="EMI"
L_OPTION3AMOUNT0 value="44.44"
L_OPTION3BILLINGFREQUENCY0 value=4
L_OPTION3BILLINGPERIOD0 value=Week
L_OPTION3TOTALBILLINGCYCLES0 value=4
L_OPTION0SELECT4 value="Fifth"
OPTION4TYPE value="EMI"
L_OPTION4AMOUNT0 value="55.55"
L_OPTION4BILLINGFREQUENCY0 value=5
L_OPTION4BILLINGPERIOD0 value=Month
L_OPTION4TOTALBILLINGCYCLES0 value=3
...
```

Offering Automatic Billing Using NVP

These examples show how to offer automatic billing. One example shows how you can set various billing options; the other example shows how you can set a minimum amount to be billed and allow the buyer to specify the actual amount.

Automatic billing in which you specify the choices

```
...
BUTTONTYPE value= AUTOBILLING
OPTION0NAME value= "Item-234"
L_OPTION0PRICE0 value= "12.30"
L_OPTION0PRICE1 value= "14.30"
L_OPTION0PRICE2 value= "15.30"
L_OPTION0PRICE3 value= "16.30"
...
```

Automatic billing in which you specify the minimum amount

```
...
BUTTONTYPE value=AUTOBILLING
L_BUTTONVAR0 value="item_name=Item-123"
L_BUTTONVAR0 value="min_amount=12.34"
...
```

Tracking Inventory for Menu Items Using NVP

The example shows the NVP parameters that enable tracking of inventory and profit and loss. The option number list index value specifies the position in the drop-down menu for the option, starting from 0, as in `L_OPTIONNUMBER0`.

```
...
TRACKINV=1
TRACKPNL=1
OPTIONINDEX=0
L_OPTIONNUMBER0=1001
L_OPTIONQTY0=100
L_OPTIONALERT0=5
L_OPTIONCOST0=4.50
L_OPTIONNUMBER1=1002
L_OPTIONQTY1=200
L_OPTIONALERT1=5
L_OPTIONCOST1=5.50
L_OPTIONNUMBER2=1003
L_OPTIONQTY2=150
L_OPTIONALERT2=5
L_OPTIONCOST2=5.00
SOLDOUTURL=http://YourSoldOutLandingPage.html
```

Using the Button Manager API With Hosted Solution Checkout

The example shows the NVP parameters for creating a link to initiate the Hosted Solution checkout flow. This example also creates a **Pay Now** button that can by used on your review page to initiate the Hosted Solution checkout flow.

```
...
BUTTONCODE=TOKEN
BUTTONTYPE=PAYMENT
L_BUTTONVAR0=subtotal=11
L_BUTTONVAR1=tax=2
L_BUTTONVAR2=shipping=3
L_BUTTONVAR3=handling=4
L_BUTTONVAR4=Smith
L_BUTTONVAR5=last_name=Victor
L_BUTTONVAR6=address1=Gardens
L_BUTTONVAR7=address2=99343
L_BUTTONVAR8=city=Paris
L_BUTTONVAR9=state=TX
L_BUTTONVAR10=zip=75002
L_BUTTONVAR11=country=US
L_BUTTONVAR12=billing_first_name=V. J.
L_BUTTONVAR13=billing_last_name=Smith
L_BUTTONVAR14=billing_address1=5088 - 061 Craven Hill Gardens
L_BUTTONVAR15=billing_address2=Apt# 199343 ba
L_BUTTONVAR16=billing_city=Wolverhampton
L_BUTTONVAR17=billing_state=West Midlands
L_BUTTONVAR18=billing_zip=W12 4LQ"
L_BUTTONVAR19=billing_country=GB
L_BUTTONVAR20=night_phone_a=408
L_BUTTONVAR21=night_phone_b=398
L_BUTTONVAR22=night_phone_c=3065
L_BUTTONVAR23=notify_url=www.google.com
L_BUTTONVAR24=custom=custom1
L_BUTTONVAR25=cancel_return=http://www.cancel_return.com
L_BUTTONVAR26=paymentaction=sale
L_BUTTONVAR27=currency_code=GBP
L_BUTTONVAR28=business=FLBY7TDW3HTYS
L_BUTTONVAR29=invoice=
L_BUTTONVAR30=lc=GB
L_BUTTONVAR31=showBillingAddress=false
L_BUTTONVAR32=showShippingAddress=false
L_BUTTONVAR33=showBillingEmail=true
L_BUTTONVAR33=showBillingPhone=true
L_BUTTONVAR34=showCustomerName=true
L_BUTTONVAR35=showCardInfo=true
L_BUTTONVAR36=showHostedThankyouPage=true
L_BUTTONVAR37=bn=GBD
L_BUTTONVAR38=cbt=Merchant ABCD
```

```
L_BUTTONVAR39=address_override=0
L_BUTTONVAR40=cpp_header_image=Red
L_BUTTONVAR41=logoText=MartWall
L_BUTTONVAR42=logoImage=http://i2.martwallimages.com/wmlogo.gif
L_BUTTONVAR43=logoImagePosition=center
L_BUTTONVAR44=logoFont=Arial Bold
L_BUTTONVAR45=logoFontSize=24px
L_BUTTONVAR46=logoFontColor=#f0ff0f
L_BUTTONVAR47=bodyBgImg=sdf
L_BUTTONVAR48=bodyBgColor=#AEAEAE
L_BUTTONVAR49=headerHeight=70px
L_BUTTONVAR50=headerBgColor=#4B6BA1
L_BUTTONVAR51=PageTitleTextColor=Blue
L_BUTTONVAR52=PageCollapseBgColor=Blue
L_BUTTONVAR53=PageCollapseTextColor=Yellow
L_BUTTONVAR54=PageButtonBgColor=Blue
L_BUTTONVAR55=PageButtonFgColor=White
L_BUTTONVAR56=orderSummaryBgColor=#EDF2F7
L_BUTTONVAR57=orderSummaryBgImage=http://.../scr_hss_bg_ordersummary.jpg
L_BUTTONVAR58=footerTextColor=#333333
L_BUTTONVAR59=footerTextlinkColor=#00f00f
L_BUTTONVAR60=template=templateC
L_BUTTONVAR61=return=http://www.martwall.com">
```

The response contains a link to the URL to initiate the Hosted Solution payment flow, identified in the response as `EMAILLINK`:

```
EMAILLINK=https://www.paypal.com/...?hosted_button_id=HSS_...
```

The button variables control the presentation in the flow and the information that is provided to the customer initially. Because the link is associated with a Hosted Solution token, the link is live for approximately two hours after it is created.

If you initiate the Hosted Solution checkout from your review page, you can alternatively use the HTML code in the response, identified as `HOSTEDBUTTONID`, to display a **Pay Now** button, which you can programatically place in your review page:

```
WEBSITECODE=<form action="https://www.paypal.com/cgi-bin/webscr"
method="post">
<input type="hidden" name="cmd" value="_s-xclick">
<input type="hidden" name="hosted_button_id" value="HSS-...">
<input type="image"
src="https://www.paypal.com/en_GB/i/btn/btn_paynow_LG.gif"
     border="0" name="submit"
     alt="PayPal - The safer, easier way to pay online.">
<img alt="" border="0"
     src="https://www.stage2sc5398.qa.paypal.com/en_GB/i/scr/pixel.gif"
     width="1" height="1">
</form>
```

When your customer clicks the button, he or she is redirected to the Hosted Solution payment flow. Like the line, he button is live for approximately two hours.

NOTE: The PayPal Hosted Solution page displays a button identified as **Pay Now** to continue the checkout flow. The **Pay Now** button on the PayPal page is is different than the **Pay Now** button created by the `BMCreateButton` API operation. You may need to change the URL of the image source to avoid confusion.

3 Button Manager API Reference

The Button Manager API enables you to programatically create, edit, and delete PayPal Payments Standard buttons hosted on PayPal, and track product inventory associated with these buttons. You can also create non-hosted buttons with the Button Manager API; however, only hosted buttons support button maintenance and inventory management.

- BMCreateButton API Operation
- BMUpdateButton API Operation
- BMButtonSearch API Operation
- BMGetButtonDetails API Operation
- BMManageButtonStatus API Operation
- BMSetInventory API Operation
- BMGetInventory API Operation

BMCreateButton API Operation

Use the `BMCreateButton` API operation to create a PayPal Payments Standard button. You can create either a button that is hosted on PayPal or a non-hosted button.

- BMCreateButton Request
- BMCreateButton Response
- BMCreateButton Errors

BMCreateButton Request

The request fields specify the characteristics of your button, which include associated menu items related to the button. You can specify up to 5 menu items, each of which can include up to 10 possible selections.

BMCreateButton Request Fields

Field	Description
METHOD	*(Required)* `BMCreateButton`
BUTTONCODE	*(Optional)* The kind of button code to create. It is one of the following values: ● `HOSTED` - A secure button stored on PayPal; default for all buttons except **View Cart**, **Unsubscribe**, and **Pay Now** ● `ENCRYPTED` - An encrypted button, not stored on PayPal; default for **View Cart** button ● `CLEARTEXT` - An unencrypted button, not stored on PayPal; default for **Unsubscribe** button ● `TOKEN` - A secure button, not stored on PayPal, used only to initiate the Hosted Solution checkout flow; default for **Pay Now** button. Since version 65.1
BUTTONTYPE	*(Required)* The kind of button you want to create. It is one of the following values: ● `BUYNOW` - **Buy Now** button ● `CART` - **Add to Cart** button ● `GIFTCERTIFICATE` - **Gift Certificate** button ● `SUBSCRIBE` - **Subscribe** button ● `DONATE` - **Donate** button ● `UNSUBSCRIBE` - **Unsubscribe** button ● `VIEWCART` - **View Cart** button ● `PAYMENTPLAN` - **Installment Plan** button; since version 63.0 ● `AUTOBILLING` - **Automatic Billing** button; since version 63.0 ● `PAYMENT` - **Pay Now** button; since version 65.1 **NOTE:** Do not specify `BUYNOW` if `BUTTONCODE=TOKEN`; specify `PAYMENT` instead. Do not specify `PAYMENT` if `BUTTONCODE=HOSTED`.
BUTTONSUBTYPE	*(Optional)* The use of button you want to create. It is one of the following values: ● `PRODUCTS` - button is used to purchase products; default for **Buy Now** and **Add to Cart** buttons ● `SERVICES` - button is used to purchase services
L_BUTTONVAR*n*	*(Optional)* HTML standard button variables

Option Details Fields

Field	Description
OPTION*n*NAME	*(Optional)* The menu name It is one or more variables, in which *n* is a digit between 0 and 4, inclusive, for hosted buttons; otherwise, it is a digit between 0 and 9, inclusive.

Option Selection Details Fields

L_OPTION*n*SELECT*x*	*(Optional)* The menu item's name It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 9, inclusive
L_OPTION0PRICE*x*	*(Optional)* The price associated with the first menu item It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 9, inclusive **NOTE:** If you specify a price, you cannot set a button variable to amount.
OPTION*n*TYPE	*(Optional)* The installment option type for an OPTION*n*NAME, which is one of the following values: ● FULL - Payment in full ● VARIABLE - Variable installments ● EMI - Equal installments **NOTE:** Only available for **Installment Plan** buttons.

Installment Details

L_OPTION*n*BILLINGPERIOD*x*	*(Optional)* The installment cycle unit, which is one of the following values: ● NoBillingPeriodType - None (default) ● Day ● Week ● SemiMonth ● Month ● Year It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*BILLINGPFREQUENCY*x*	*(Optional)* The installment cycle frequency in units, e.g. if the billing frequency is 2 and the billing period is Month, the billing cycle is every 2 months. The default billing frequency is 1. It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*TOTALBILLINGCYCLES*x*	*(Optional)* The total number of billing cycles, regardless of the duration of a cycle; 1 is the default It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*AMOUNT*x*	*(Optional)* The base amount to bill for the cycle. It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*SHIPPINGAMOUNT*x*	*(Optional)* The shipping amount to bill for the cycle, in addition to the base amount. It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 4, inclusive

`L_OPTION`*n*`TAXAMOUNT`*x*	*(Optional)* The tax amount to bill for the cycle, in addition to the base amount. It is a list of variables for each `OPTION0NAME`, in which *x* is a digit between 0 and 4, inclusive

Button Language Options

The button language must be compatible with the country identified by the country code.

Country	Button Language Options
All countries not identified below	• `en` - English; default
Austria	• `de` - German; default • `en` - English
Belgium	• `en` - English; default • `nl` - Dutch • `fr` - French
Canada	• `en` - English; default • `fr` - French
China (worldwide)	• `en` - English; default • `zh` - Chinese
France	• `fr` - French; default • `en` - English
Germany	• `de` - German; default • `en` - English
Hong Kong	• `zh` - Chinese; default • `en` - English
Italy	• `it` - Italian; default • `en` - English
Japan	• `ja` - Japanese; default • `en` - English
Mexico	• `es` - Spanish; default • `en` - English
Netherlands	• `nl` - Dutch; default • `en` - English
Poland	• `pl` - Polish; default • `en` - English
Spain	• `es` - Spanish; default • `en` - English

Country	Button Language Options
Switzerland	• de - German; default • fr - French • en - English
United States	• en - English; default • fr - French • es - Spanish • zh - Chinese

BMCreateButton Response

The response contains an ID if the button is hosted on PayPal, and code for HTML in a website and for a link in email.

BMCreateButton Response Fields

Field	Description
WEBSITECODE	HTML code for web pages
EMAILLINK	Code for email links, links in other documents that support external links, and links to the Hosted Solution checkout flow
HOSTEDBUTTONID	ID of a PayPal-hosted button or a Hosted Solution token

BMCreateButton Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11923	Invalid Argument	The button image value specified is invalid.	
11924	Invalid Argument	The button image URL specified is invalid.	
11925	Invalid Argument	The button type specified is invalid.	
11926	Invalid Data	One of the parameters specified using ButtonVar is invalid.	
11927	Invalid Argument	The buy now button text specified is invalid.	
11928	Invalid Argument	The email or merchant ID specified is invalid.	

Error Code	Short Message	Long Message	Correcting This Error...
11929	Invalid Data	A cart button must have an item name and amount specified.	
11930	Invalid Data	A gift certificate button must have a valid shopping URL specified.	
11931	Invalid Argument	The subscription button text specified is invalid.	
11932	Invalid Data	You must specify a corresponding number of entries for option names and selections.	
11933	Invalid Data	You cannot skip index numbers for option selections. Option selections must be specified sequentially.	
11934	Invalid Data	You must specify the same number of entries for option prices and selections.	
11936	Invalid Data	You cannot specify both an item price and prices for individual selections within an option.	
11937	Invalid Argument	A text box name specified is invalid. Text box names must not exceed 64 characters.	
11938	Invalid Argument	The button code value specified is invalid.	
11940	Invalid Argument	An option name specified is invalid. Option names must not exceed 64 characters.	
11941	Invalid Argument	An option selection value specified is invalid. Option selection values must not exceed 64 characters.	
11942	Invalid Argument	An option price value specified is invalid. Make sure any punctuation marks are in the correct places.	
11943	Invalid Argument	The button country value specified is invalid.	
11945	Invalid Data	The button country and language code combination specified is invalid.	
11947	Invalid Argument	The tax rate specified is invalid. Make sure any punctuation marks are in the correct places and value specified is in the range 0.0 to 100.	
11948	Invalid Argument	The amount specified is invalid. Make sure any punctuation marks are in the correct places.	

Error Code	Short Message	Long Message	Correcting This Error...
12210	Invalid Argument	The currency code value specified is invalid.	
13117	Invalid Argument	Subtotal amount is not valid.	
13118	Invalid Argument	Tax amount is not valid.	
13119	Invalid Argument	Handling amount is not valid.	
13120	Invalid Argument	Shipping amount is not valid.	

BMUpdateButton API Operation

Use the `BMUpdateButton` API operation to modify a PayPal Payments Standard button that is hosted on PayPal. This operation replaces all fields in the specified button; therefore, you must specify a value for each field you want to include for the button, whether or not it changed.

● BMUpdateButton Request

● BMUpdateButton Response

● BMUpdateButton Errors

BMUpdateButton Request

The hosted button ID identifies the button you want to modify. The remaining request fields specify the characteristics of your button.

BMUpdateButton Request Fields

Field	Description
METHOD	*(Required)* `BMUpdateButton`
HOSTEDBUTTONID	*(Required)* The ID of the hosted button you want to modify.

Field	Description
BUTTONTYPE	*(Required)* The kind of button you want to update. It is one of the following values: • BUYNOW - **Buy Now** button • CART - **Add to Cart** button • GIFTCERTIFICATE - **Gift Certificate** button • SUBSCRIBE - **Subscribe** button • DONATE - **Donate** button • UNSUBSCRIBE - **Unsubscribe** button • VIEWCART - **View Cart** button • PAYMENTPLAN - **Installment Plan** button; since version 63.0 • AUTOBILLING - **Automatic Billing** button; since version 63.0 **NOTE:** You cannot change the kind of button after the button has been created.
BUTTONCODE	*(Optional)* The kind of button code to create. It is one of the following values: • HOSTED - A secure button stored on PayPal; default for all buttons except **View Cart** and **Unsubscribe** • ENCRYPTED - An encrypted button, not stored on PayPal; default for **View Cart** button • CLEARTEXT - An unencrypted button, not stored on PayPal; default for **Unsubscribe** button **NOTE:** You cannot change the kind of button code after after the button has been created.
BUTTONSUBTYPE	*(Optional)* The use of button you want to create. It is one of the following values: • PRODUCTS - button is used to purchase products; default for **Buy Now** and **Add to Cart** buttons • SERVICES - button is used to purchase services **NOTE:** You cannot change the button usage after after the button has been created.
L_BUTTONVAR*n*	*(Optional)* HTML standard button variables It is a list of variables, in which *n* is a digit between 0 and 999, inclusive; do not include leading zeros. Character length and limitations: 63 single-byte alphanumeric characters each
L_TEXTBOX*n*	xs:string *(Optional)* Text description for a menu item It is a list of variables, in which *n* is a digit between 0 and 1, inclusive.
BUTTONIMAGE	*(Optional)* The kind of button image. It is one of the following values: • REG - regular; default • SML - small • CC - small button image with credit card logos; not applicable for Unsubscribe or **View Cart** buttons **NOTE:** Specify either the kind of button image or the URL.

Field	Description
BUTTONIMAGEURL	xs:string *(Optional)* The button's URL **NOTE:** Specify either the kind of button image or the URL.
BUYNOWTEXT	*(Optional)* The button text for a Buy Now button. It is one of the following values: ● BUYNOW - button text is **Buy Now**; default ● PAYNOW - button text is **Pay Now**
SUBSCRIBETEXT	*(Optional)* The button text for a Subscribe button. It is one of the following values: ● BUYNOW - button text is **Buy Now** ● SUBSCRIBE - button text is **Subscribe**; default
BUTTONCOUNTRY	*(Optional)* The country in which the transaction occurs. By default, it is the merchant's country of registration with PayPal.
BUTTONLANGUAGE	xs:string *(Optional)* The language in which to display the button text. It must be compatible with the country code. Character length and limitations: 2 single-byte alphanumeric characters

Option Details Fields

Field	Description
OPTION*n*NAME	*(Optional)* The menu name It is one or more variables, in which n is a digit between 0 and 4, inclusive, for hosted buttons; otherwise, it is a digit between 0 and 9, inclusive.

Option Selection Details Fields

L_OPTION*n*SELECT*x*	*(Optional)* The menu item's name It is a list of variables for each OPTION*n*NAME, in which x is a digit between 0 and 9, inclusive
L_OPTION0PRICE*x*	*(Optional)* The price associated with the first menu item It is a list of variables for each OPTION0NAME, in which x is a digit between 0 and 9, inclusive **NOTE:** If you specify a price, you cannot set a button variable to amount.
OPTION*n*TYPE	*(Optional)* The installment option type for an OPTION*n*NAME, which is one of the following values: ● FULL - Payment in full ● VARIABLE - Variable installments ● EMI - Equal installments **NOTE:** Only available for **Installment Plan** buttons.

Installment Details

L_OPTION*n*BILLINGPERIOD*x*	*(Optional)* The installment cycle unit, which is one of the following values: • `NoBillingPeriodType` - None (default) • `Day` • `Week` • `SemiMonth` • `Month` • `Year` It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*BILLINGPFREQUENCY*x*	*(Optional)* The installment cycle frequency in units, e.g. if the billing frequency is `2` and the billing period is `Month`, the billing cycle is every 2 months. The default billing frequency is `1`. It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*TOTALBILLINGCYCLES*x*	*(Optional)* The total number of billing cycles, regardless of the duration of a cycle; `1` is the default It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*AMOUNT*x*	*(Optional)* The base amount to bill for the cycle. It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*SHIPPINGAMOUNT*x*	*(Optional)* The shipping amount to bill for the cycle, in addition to the base amount. It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*TAXAMOUNT*x*	*(Optional)* The tax amount to bill for the cycle, in addition to the base amount. It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 4, inclusive

Button Language Options

The button language must be compatible with the country identified by the country code.

Country	Button Language Options
All countries not identified below	• `en` - English; default
Austria	• `de` - German; default • `en` - English
Belgium	• `en` - English; default • `nl` - Dutch • `fr` - French

Country	Button Language Options
Canada	• `en` - English; default • `fr` - French
China (worldwide)	• `en` - English; default • `zh` - Chinese
France	• `fr` - French; default • `en` - English
Germany	• `de` - German; default • `en` - English
Hong Kong	• `zh` - Chinese; default • `en` - English
Italy	• `it` - Italian; default • `en` - English
Japan	• `ja` - Japanese; default • `en` - English
Mexico	• `es` - Spanish; default • `en` - English
Netherlands	• `nl` - Dutch; default • `en` - English
Poland	• `pl` - Polish; default • `en` - English
Spain	• `es` - Spanish; default • `en` - English
Switzerland	• `de` - German; default • `fr` - French • `en` - English
United States	• `en` - English; default • `fr` - French • `es` - Spanish • `zh` - Chinese

BMUpdateButton Response

The response contains the hosted button ID, code for HTML in a website, and code for a link in email.

BMUpdateButton Response Fields

Field	Description
WEBSITECODE	HTML code for web pages
EMAILLINK	Code for email links and links in other documents that support external links
HOSTEDBUTTONID	ID of a PayPal hosted button

BMUpdateButton Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11923	Invalid Argument	The button image value specified is invalid.	
11924	Invalid Argument	The button image URL specified is invalid.	
11925	Invalid Argument	The button type specified is invalid.	
11926	Invalid Data	One of the parameters specified using ButtonVar is invalid.	
11927	Invalid Argument	The buy now button text specified is invalid.	
11928	Invalid Argument	The email or merchant ID specified is invalid.	
11929	Invalid Data	A cart button must have an item name and amount specified.	
11930	Invalid Data	A gift certificate button must have a valid shopping URL specified.	
11931	Invalid Argument	The subscription button text specified is invalid.	
11932	Invalid Data	You must specify a corresponding number of entries for option names and selections.	
11933	Invalid Data	You cannot skip index numbers for option selections. Option selections must be specified sequentially.	
11934	Invalid Data	You must specify the same number of entries for option prices and selections.	

Error Code	Short Message	Long Message	Correcting This Error...
11936	Invalid Data	You cannot specify both an item price and prices for individual selections within an option.	
11937	Invalid Argument	A text box name specified is invalid. Text box names must not exceed 64 characters.	
11938	Invalid Argument	The button code value specified is invalid.	
11940	Invalid Argument	An option name specified is invalid. Option names must not exceed 64 characters.	
11941	Invalid Argument	An option selection value specified is invalid. Option selection values must not exceed 64 characters.	
11942	Invalid Argument	An option price value specified is invalid. Make sure any punctuation marks are in the correct places.	
11943	Invalid Argument	The button country value specified is invalid.	
11945	Invalid Data	The button country and language code combination specified is invalid.	
11947	Invalid Argument	The tax rate specified is invalid. Make sure any punctuation marks are in the correct places and value specified is in the range 0.0 to 100.	
11948	Invalid Argument	The amount specified is invalid. Make sure any punctuation marks are in the correct places.	
12210	Invalid Argument	The currency code value specified is invalid.	
13117	Invalid Argument	Subtotal amount is not valid.	
13118	Invalid Argument	Tax amount is not valid.	
13119	Invalid Argument	Handling amount is not valid.	
13120	Invalid Argument	Shipping amount is not valid.	

BMButtonSearch API Operation

Use the `BMButtonSearch` API operation to obtain a list of your hosted PayPal Payments Standard buttons.

- BMButtonSearch Request
- BMButtonSearch Response
- BMButtonSearch Errors

BMButtonSearch Request

The request contains optional fields that are not currently used. All hosted buttons are automatically requested.

BMButtonSearch Request Fields

Field	Description
METHOD	*(Required)* BMButtonSearch
STARTDATE	*(Required)* Starting date for the search. The value must be in UTC/GMT format; for example, 2009-08-24T05:38:48Z. No wildcards are allowed.
ENDDATE	*(Optional)* Ending date for the search. The value must be in UTC/GMT format; for example, 2010-05-01T05:38:48Z. No wildcards are allowed.

BMButtonSearch Response

The response contains a list of all hosted buttons and their associated characteristics.

BMButtonSearch Response Fields

Field	Description
L_HOSTEDBUTTONID*n*	The hosted button ID It is a list of variables, in which *n* is a digit between 0 and 9, inclusive.
L_BUTTONTYPE*n*	The hosted button ID It is a list of variables, in which *n* is a digit between 0 and 9, inclusive.
L_ITEMNAME*n*	The item name It is a list of variables, in which *n* is a digit between 0 and 9, inclusive.
L_MODIFYDATE*n*	The date created or last changed It is a list of variables, in which *n* is a digit between 0 and 9, inclusive.

BMButtonSearch Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11994	Search Warning	You have exceeded the maximum number of buttons that can be returned. Please adjust your seach parameters if required.	
11997	Invalid Argument	A start date value must be specified.	
11998	Invalid Argument	The start date specified is invalid.	
11999	Invalid Argument	The end date specified is invalid.	

BMGetButtonDetails API Operation

Use the `BMGetButtonDetails` API operation to obtain information about a hosted PayPal Payments Standard button. You can use this information to set the fields that have not changed when updating a button.

- BMGetButtonDetails Request
- BMGetButtonDetails Response
- BMUpdateButton Errors

BMGetButtonDetails Request

The request includes only the ID of the hosted button whose details you want to obtain.

BMGetButtonDetails Request Fields

Field	Description
METHOD	*(Required)* `BMGetButtonDetails`
HOSTEDBUTTONID	*(Required)* The ID of the hosted button whose details you want to obtain.

BMGetButtonDetails Response

The response fields contain all non-inventory information related to the button.

BMGetButtonDetails Response Fields

Field	Description
BUTTONTYPE	The kind of button. It is one of the following values: - BUYNOW - **Buy Now** button - CART - **Add to Cart** button - GIFTCERTIFICATE - **Gift Certificate** button - SUBSCRIBE - **Subscribe** button - DONATE - **Donate** button - UNSUBSCRIBE - **Unsubscribe** button - VIEWCART - **View Cart** button - PAYMENTPLAN - **Installment Plan** button; since version 63.0 - AUTOBILLING - **Automatic Billing** button; since version 63.0
BUTTONCODE	The kind of button code. It is one of the following values: - HOSTED - A secure button stored on PayPal - ENCRYPTED - An encrypted button, not stored on PayPal - CLEARTEXT - An unencrypted button, not stored on PayPal
BUTTONSUBTYPE	The use of button. It is one of the following values: - PRODUCTS - button is used to purchase products - SERVICES - button is used to purchase services
HOSTEDBUTTONID	ID of a PayPal hosted button
WEBSITECODE	HTML code for web pages
EMAILLINK	Code for email links and links in other documents that support external links
L_BUTTONVAR*n*	HTML standard button variables

Option Details Fields

Field	Description
OPTION*n*NAME	*(Optional)* The menu name It is one or more variables, in which *n* is a digit between 0 and 4, inclusive, for hosted buttons; otherwise, it is a digit between 0 and 9, inclusive.

Option Selection Details Fields

Field	Description
L_OPTION*n*SELECT*x*	*(Optional)* The menu item's name It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 9, inclusive
L_OPTION0PRICE*x*	*(Optional)* The price associated with the first menu item It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 9, inclusive **NOTE:** If you specify a price, you cannot set a button variable to amount.
OPTION*n*TYPE	*(Optional)* The installment option type for an OPTION*n*NAME, which is one of the following values: ● FULL - Payment in full ● VARIABLE - Variable installments ● EMI - Equal installments **NOTE:** Only available for **Installment Plan** buttons.

Installment Details

Field	Description
L_OPTION*n*BILLINGPERIOD*x*	*(Optional)* The installment cycle unit, which is one of the following values: ● NoBillingPeriodType - None (default) ● Day ● Week ● SemiMonth ● Month ● Year It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*BILLINGPFREQUENCY*x*	*(Optional)* The installment cycle frequency in units, e.g. if the billing frequency is 2 and the billing period is Month, the billing cycle is every 2 months. The default billing frequency is 1. It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*TOTALBILLINGCYCLES*x*	*(Optional)* The total number of billing cycles, regardless of the duration of a cycle; 1 is the default It is a list of variables for each OPTION*n*NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*AMOUNT*x*	*(Optional)* The base amount to bill for the cycle. It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 4, inclusive

Field	Description
L_OPTION*n*SHIPPINGAMOUNT*x*	*(Optional)* The shipping amount to bill for the cycle, in addition to the base amount. It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 4, inclusive
L_OPTION*n*TAXAMOUNT*x*	*(Optional)* The tax amount to bill for the cycle, in addition to the base amount. It is a list of variables for each OPTION0NAME, in which *x* is a digit between 0 and 4, inclusive

BMGetButtonDetails Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11950	Invalid Data	A hosted button ID must be specified.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11992	Invalid Argument	You do not have permissions to access this button. Please check the hosted button ID and try again.	

BMManageButtonStatus API Operation

Use the BMManageButtonStatus API operation to change the status of a hosted button. Currently, you can only delete a button.

- BMManageButtonStatus Request
- BMManageButtonStatus Response
- BMUpdateButton Errors

BMManageButtonStatus Request

The request specifies the hosted button's ID and the status you want to set the button to.

BMManageButtonStatus Request Fields

Field	Description
METHOD	*(Required)* BMManageButtonStatus
HOSTEDBUTTONID	*(Required)* The ID of the hosted button whose status you want to change.
BUTTONSTATUS	*(Required)* The new status of the button. It is one of the following values: • DELETE - the button is deleted from PayPal

BMManageButtonStatus Response

The response does not include any fields that are specific to the BMManageButtonStatus API operation.

BMManageButtonStatus Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11950	Invalid Data	A hosted button ID must be specified.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11992	Invalid Argument	You do not have permissions to access this button. Please check the hosted button ID and try again.	
11993	Invalid Argument	The button status value specified is not valid.	

BMSetInventory API Operation

Use the BMSetInventory API operation to set the inventory level and inventory management features for the specified button. When you set the inventory level for a button, PayPal can track inventory, calculate the gross profit associated with sales, send you an alert when inventory drops below a specified quantity, and manage sold out conditions.

- BMSetInventory Request
- BMSetInventory Response
- BMSetInventory Errors

BMSetInventory Request

The request specifies inventory values related to a hosted button as well as inventory values that are specific to each menu item.

BMSetInventory Request Fields

Field	Description
METHOD	*(Required)* `BMSetInventory`
HOSTEDBUTTONID	*(Required)* The ID of the hosted button whose inventory you want to set.
TRACKINV	*(Required)* Whether to track inventory levels associated with the button. It is one of the following values: ● `0` - do not track inventory ● `1` - track inventory
TRACKPNL	*(Required)* Whether to track the gross profit associated with inventory changes. It is one of the following values: ● `0` - do not track the gross profit ● `1` - track the gross profit **NOTE:** The gross profit is calculated as the price of the item less its cost, multiplied by the change in the inventory level since the last call to `BMSetInventory`.
OPTIONNAMEINDEX	*(Optional)* Option index, which identifies the button. Option index 0 is the menu that contains the price if one exists; otherwise, it is the first menu without a price. Character length and limitations: 1 single-byte alphanumeric character
SOLDOUTURL	*(Optional)* The URL to which the buyer's browser is redirected when the inventory drops to 0. **NOTE:** Specifying a URL in this field also prevents a sale when the inventory drops to 0; otherwise, sales can continue even when inventory is unavailable. Character length and limitations: 127 single-byte alphanumeric characters
REUSEDIGITALDOWNLOADKEYS	*(Optional)* Whether to reuse download keys: ● `0` - do not reuse keys (default) ● `1` - reuse keys **NOTE:** If you do not reuse the download keys, you must replenish the keys when you sell out of the product being downloaded.

Field	Description
APPENDDIGITALDOWNLOADKEYS	*(Optional)* Whether to append download keys: • 0 - do not append keys (default) • 1 - append keys **NOTE:** If you do not append the download keys, unused keys will be replaced..
L_DIGITALDOWNLOADKEYS*n*	*(Optional)* One or more digital download keys, up to a maximum of 1,000 keys. The variable *n* in the field name is a number between 0 and 999, inclusive, that specifies the key. Character length and limitations: 1,000 single-byte alphanumeric characters each.

Item Tracking Details Fields

ITEMNUMBER	*(Optional)* The ID for an item associated with this button
ITEMQTY	The quantity you want to specify for the item associated with this button. Specify either the absolute quantity in this field or the change in quantity in the quantity delta field
ITEMQTYDELTA	The change in quantity you want to specify for the item associated with this button. Specify either the change in quantity in this field or the absolute quantity in the item quantity field
ITEMALERT	*(Optional)* The quantity of the item associated with this button below which PayPal sends you an email notification
ITEMCOST	*(Optional)* The cost of the item associated with this button

Option Tracking Details Fields

L_OPTIONNUMBER*n*	*(Optional)* The menu item's ID for an option in a dropdown menu It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.
L_OPTIONQTY*n*	The quantity you want to specify for the option associated with this menu item. Specify either the absolute quantity in this field or the change in quantity in the quantity delta field It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.
L_OPTIONSELECT*n*	*(Optional)* The menu item's name in a dropdown menu It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.

L_OPTIONQTYDELTA*n*	The change in quantity you want to specify for the option associated with this menu item. Specify either the change in quantity in this field or the absolute quantity in the quantity field
	It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.
L_OPTIONALERT*n*	*(Optional)* The quantity of the option associated with this menu item below which PayPal sends you an email notification
	It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.
L_OPTIONCOST*n*	*(Optional)* The cost of the option associated with this menu item
	It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.
	Limitations: Value must be a positive number, with no currency symbol. It must have two decimal places and the decimal separator must be a period (.). It may have an optional comma (,) for the thousands separator.

BMSetInventory Response

The response contains only the transaction ID.

BMSetInventory Response Fields

Field	Description
TRANSACTIONID	Transaction ID

BMSetInventory Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11950	Invalid Data	A hosted button ID must be specified.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11953	Invalid Data	You can only track inventory and profit & loss for buy now, cart or subscription buttons.	
11954	Invalid Data	A TrackInv value must be specified.	
11955	Invalid Data	A TrackPnl value must be specified.	

Error Code	Short Message	Long Message	Correcting This Error...
11956	Invalid Argument	The TrackInv value specified is invalid.	
11957	Invalid Argument	The TrackPnl value specified is invalid.	
11958	Invalid Data	You cannot specify both an ItemQty and ItemQtyDelta value.	
11959	Invalid Data	You cannot specify both an OptionQty and OptionQtyDelta value.	
11960	Invalid Data	You cannot specify item level or option level inventory when TrackInv is 0.	
11961	Invalid Data	You must either track inventory by item or by option when TrackInv is 1. It cannot be tracked by both together or none at all.	
11964	Invalid Data	You must either track inventory and/or track profit & loss.	
11965	Invalid Data	You cannot track inventory by item and cost by option at the same time or vice versa.	
11966	Invalid Argument	Item number specified is invalid. It must be a string less than 127 characters.	
11967	Invalid Data	You cannot set inventory for more option selections than the number of option selections saved in the button.	
11968	Invalid Data	Option numbers must be unique within an individual button.	
11969	Invalid Data	An option name index value must be specified when tracking inventory or profit & loss by option.	
11970	Invalid Argument	Option name index value specified is invalid.	
11971	Invalid Data	Inventory and/or profit & loss must be managed by item or an option with price when one is defined.	
11972	Invalid Data	Option name index value specified does not exist.	
11973	Invalid Data	ItemQty and/or ItemQtyDelta must be an integer.	
11974	Invalid Data	An item quantity or item quantity delta value cannot be specified when TrackInv is 0.	

Error Code	Short Message	Long Message	Correcting This Error...
11975	Invalid Data	The number of option quantity or option quantity delta values specified is greater than the number of option selections in the saved button.	
11976	Invalid Data	You must specify either option quantity or option quantity delta values with a valid integer value.	
11977	Invalid Data	An option quantity or option quantity delta value must not be specified when TrackInv is 0.	
11978	Invalid Argument	Item alert must be specified as a positive integer.	
11979	Invalid Argument	Item alert must not be specified when TrackInv is 0.	
11980	Invalid Data	The number of option alert values specified is greater than the number of option selections in the saved button.	
11981	Invalid Argument	Option alert values must be specified as a positive integer.	
11982	Invalid Argument	Option alert values cannot be specified when TrackInv is 0.	
11983	Invalid Argument	Item cost value must be specified when tracking profit & loss by item.	
11984	Invalid Argument	The item cost value specified is invalid.	
11985	Invalid Argument	An item cost value cannot be specified when TrackPnl is 0.	
11986	Invalid Data	The number of option cost values specified is greater than the number of option selections in the saved button.	
11987	Invalid Argument	Option cost values must be specified when tracking profit & loss by option.	
11988	Invalid Argument	An option cost value specified is invalid.	
11989	Invalid Argument	An option cost value cannot be specified when TrackPnl is 0.	
11990	Invalid Argument	The sold out URL specified is invalid.	
12210	Invalid Argument	The currency code value specified is invalid.	

BMGetInventory API Operation

Use the `BMGetInventory` API operation to determine the inventory levels and other inventory-related information for a button and menu items associated with the button. Typically, you call `BMGetInventory` to obtain field values before calling `BMSetInventory` to change the inventory levels.

- BMGetInventory Request
- BMGetInventory Response
- BMGetInventory Errors

BMGetInventory Request

The hosted button ID identifies the button whose inventory you want to track.

BMGetInventory Request Fields

Field	Description
METHOD	*(Required)* `BMGetInventory`
HOSTEDBUTTONID	*(Required)* The ID of the hosted button whose inventory information you want to obtain.
L_DIGITALDOWNLOADKEYS*n*	*(Optional)* One or more digital download keys, up to a maximum of 1,000 keys. The variable *n* in the field name is a number between 0 and 999, inclusive, that specifies the key. Character length and limitations: 1,000 single-byte alphanumeric characters each.

BMGetInventory Response

The response fields contain inventory information related to the button.

BMGetInventory Response Fields

Field	Description
HOSTEDBUTTONID	The ID of the hosted button whose inventory you want to set.
TRACKINV	Whether to track inventory levels associated with the button. It is one of the following values: • `0` - do not track inventory • `1` - track inventory

Field	Description
TRACKPNL	Whether to track the gross profit associated with inventory changes. It is one of the following values: • `0` - do not track the gross profit • `1` - track the gross profit **NOTE:** The gross profit is calculated as the price of the item less its cost, multiplied by the change in the inventory level since the last call to `BMSetInventory`.
OPTIONNAMEINDEX	Option index, which identifies the button. Option index 0 is the menu that contains the price if one exists; otherwise, it is the first menu without a price. Character length and limitations: 1 single-byte alphanumeric character
SOLDOUTURL	The URL to which the buyer's browser is redirected when the inventory drops to 0 **NOTE:** A value in this field also prevents a sale when the inventory drops to 0; otherwise, sales can continue even when inventory is unavailable. Character length and limitations: 127 single-byte alphanumeric characters

Item Tracking Details Fields

Field	Description
ITEMNUMBER	The ID for an item associated with this button
ITEMQTY	The current inventory level of the item associated with this button
ITEMQTYDELTA	Not used
ITEMALERT	The quantity of the item associated with this button below which PayPal sends you an email notification
ITEMCOST	The cost of the item associated with this button

Option Tracking Details Fields

Field	Description
L_OPTIONNUMBER*n*	The menu item's ID for an option in a dropdown menu It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.
L_OPTIONQTY*n*	The current inventory level of the option associated with this menu item It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.
L_OPTIONSELECT*n*	The menu item's name in a dropdown menu It is a list of variables for each menu item, in which *n* is a digit between 0 and 9, inclusive.

Field	Description
L_OPTIONQTYDELTAn	Not used
	It is a list of variables for each menu item, in which n is a digit between 0 and 9, inclusive.
L_OPTIONALERTn	The quantity of the option associated with this menu item below which PayPal sends you an email notification
	It is a list of variables for each menu item, in which n is a digit between 0 and 9, inclusive.
L_OPTIONCOSTn	The cost of the option associated with this menu item
	It is a list of variables for each menu item, in which n is a digit between 0 and 9, inclusive.

BMGetInventory Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11950	Invalid Data	A hosted button ID must be specified.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11953	Invalid Data	You can only track inventory and profit & loss for buy now, cart or subscription buttons.	
11991	Invalid Data	The hosted button id specified does not have any inventory or cost associated with it.	
11992	Invalid Argument	You do not have permissions to access this button. Please check the hosted button ID and try again.	

A HTML Variables for PayPal Payments Standard

You can use all variables supported for your button: Buy Now, Donation, Subscribe, Add to Cart, and View Cart buttons. You can also use HTML variables supported the Cart Upload command.

Technical HTML Variables

Technical HTML variables control how PayPal responds technically when people click PayPal Payments Standard payment buttons or when third-party or custom carts initiate payment processing with the Cart Upload command. They also control how your buttons interact with special PayPal features.

Allowable Values for the cmd HTML Variable

Value of cmd	Description
_xclick	The button that the person clicked was a Buy Now button.
_cart	For shopping cart purchases. The following variables specify the kind of shopping cart button that the person clicked: ● add – Add to Cart buttons for the PayPal Shopping Cart ● display – View Cart buttons for the PayPal Shopping Cart ● upload – The Cart Upload command for third-party carts
_oe-gift-certificate	The button that the person clicked was a Buy Gift Certificate button.
_xclick-subscriptions	The button that the person clicked was a Subscribe button.
_xclick-auto-billing	The button that the person clicked was an Automatic Billing button.
_xclick-payment-plan	The button that the person clicked was an Installment Plan button.
_donations	The button that the person clicked was a Donate button.
_s-xclick	The button that the person clicked was protected from tampering by using encryption, or the button was saved in the merchant's PayPal account. PayPal determines which kind of button was clicked by decoding the encrypted code or by looking up the saved button in the merchant's account.

HTML Variables for Special PayPal Features

Name	Required or Optional	Description	Character Length
notify_url	Optional	The URL to which PayPal posts information about the payment, in the form of Instant Payment Notification messages.	255
hosted_button_id	See description.	Required for buttons that have been saved in PayPal accounts; otherwise, not allowed. The identifier of a button that was saved in a merchant's PayPal account. PayPal assigns the value when payment buttons are first created and saved in merchants' PayPal accounts. **NOTE:** A merchant's PayPal account can have a maximum of 1,000 saved payment buttons.	See description.

bn	Optional	An identifier of the source that built the code for the button that the buyer clicked, sometimes known as the *build notation*. Specify a value using the following format:
		
		`<Company>_<Service>_<Product>_<Country>`
		
		Substitute `<Service>` with an appropriate value from the following list:
		• `BuyNow`
		• `AddToCart`
		• `Donate`
		• `Subscribe`
		• `AutomaticBilling`
		• `InstallmentPlan`
		• `BuyGiftCertifcate`
		• `ShoppingCart`
		
		Substitute `<Product>` with `WPS` always for Website Payments Standard payment buttons and for the Website Payments Standard Cart Upload command.
		
		Substitute `<Country>` with an appropriate two-letter country code from codes defined by the ISO 3166-1 standard.
		
		For example, a Buy Now button on your website that you coded yourself might have the following line of code:
		
		`bn="DesignerFotos_BuyNow_WPS_US"`
		
		NOTE: HTML button code that you create on the PayPal website includes bn variables with valid values generated by PayPal.	

HTML Variables for Individual Items

HTML variables for individual items specify information about a product or service for Buy Now and Add to Cart buttons, or they specify information about a contribution for Donate buttons.

HTML Variables for Individual Items

Name	Required or Optional	Description	Character Length
amount	See description.	The price or amount of the product, service, or contribution, not including shipping, handling, or tax. If this variable is omitted from Buy Now or Donate buttons, buyers enter their own amount at the time of payment. • Required for Add to Cart buttons • Optional for Buy Now and Donate buttons • Not used with Subscribe or Buy Gift Certificate buttons	
discount_amount	Optional	Discount amount associated with an item. It must be less than the selling price of the item. If you specify discount_amount and discount_amount2 is not defined, then this flat amount is applied regardless of the quantity of items purchased. Valid only for Buy Now and Add to Cart buttons.	
discount_amount 2	Optional	Discount amount associated with each additional quantity of the item. It must be equal to or less than the selling price of the item. A discount_amount must also be specified as greater than or equal to 0 for discount_amount2 to take effect. Valid only for Buy Now and Add to Cart buttons.	
discount_rate	Optional	Discount rate (percentage) associated with an item. It must be set to a value less than 100. If you do not set discount_rate2, the value in discount_rate applies only to the first item regardless of the quantity of items purchased. Valid only for Buy Now and Add to Cart buttons.	
discount_rate2	Optional	Discount rate (percentage) associated with each additional quantity of the item. It must be equal to or less 100. A discount_rate must also be specified as greater than or equal to 0 for discount_rate2 to take effect. Valid only for Buy Now and Add to Cart buttons.	

Name	Required or Optional	Description	Character Length
discount_num	Optional	Number of additional quantities of the item to which the discount applies. Applicable when you use discount_amount2 or discount_rate2. Use this variable to specify an upper limit on the number of discounted items. Valid only for Buy Now and Add to Cart buttons.	
item_name	See description.	Description of item. If this variable is omitted, buyers enter their own name during checkout. • Optional for Buy Now, Donate, Subscribe, Automatic Billing, Installment Plan, and Add to Cart buttons • Not used with Buy Gift Certificate buttons	127
item_number	See description.	Pass-through variable for you to track product or service purchased or the contribution made. The value you specify is passed back to you upon payment completion. This variable is required if you want PayPal to track inventory or track profit and loss for the item the button sells.	127
quantity	Optional	Number of items. If profile-based shipping rates are configured with a basis of quantity, the sum of quantity values is used to calculate the shipping charges for the payment. PayPal appends a sequence number to identify uniquely the item in the PayPal Shopping Cart, for example, quantity1, quantity2, and so on. **NOTE:** The value for quantity must be a positive integer. Null, zero, or negative numbers are not allowed.	
shipping	Optional	The cost of shipping this item. If you specify shipping and shipping2 is not defined, this flat amount is charged regardless of the quantity of items purchased. This shipping variable is valid only for Buy Now and Add to Cart buttons. Default – If profile-based shipping rates are configured, buyers are charged an amount according to the shipping methods they choose.	
shipping2	Optional	The cost of shipping each additional unit of this item. If this variable is omitted and profile-based shipping rates are configured, buyers are charged an amount according to the shipping methods they choose. This shipping variable is valid only for Buy Now and Add to Cart buttons.	

Name	Required or Optional	Description	Character Length
tax	Optional	Transaction-based tax override variable. Set this variable to a flat tax amount to apply to the payment regardless of the buyer's location. This value overrides any tax settings set in your account profile. Valid only for Buy Now and Add to Cart buttons. Default – Profile tax settings, if any, apply.	
tax_rate	Optional	Transaction-based tax override variable. Set this variable to a percentage that applies to the amount multiplied by the quantity selected during checkout. This value overrides any tax settings set in your account profile. Allowable values are numbers 0.001 through 100. Valid only for Buy Now and Add to Cart buttons. Default – Profile tax settings, if any, apply.	6
undefined_ quantity	Optional	1 – allows buyers to specify the quantity. ● Optional for Buy Now buttons ● Not used with other buttons	1
weight	Optional	Weight of items. If profile-based shipping rates are configured with a basis of weight, the sum of weight values is used to calculate the shipping charges for the payment. Allowable values are decimals numbers, with 2 significant digits to the right of the decimal point.	
weight_unit	Optional	The unit of measure if weight is specified. Allowable values are: ● lbs ● kgs The default is lbs.	
on0	Optional	First option field name and label. The os0 variable contains the corresponding value for this option field. For example, if on0 is size, os0 could be large. ● Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons ● Not used with Donate or Buy Gift Certificate buttons	64
on1	Optional	Second option field name and label. The os1 variable contains the corresponding value for this option field. For example, if on1 is color then os1 could be blue. You can specify a maximum of 7 option field names (6 with Subscribe buttons) by incrementing the option name index (on0 through on6). ● Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons ● Not used with Donate or Buy Gift Certificate buttons	64

Name	Required or Optional	Description	Character Length
os0	Optional	Option selection of the buyer for the first option field, on0. If the option field is a dropdown menu or a set of radio buttons, each allowable value should be no more than 64 characters. If buyers enter this value in a text field, there is a 200-character limit. **NOTE:** The option field on0 must also be defined. For example, it could be size. For priced options, include the price and currency symbol in the text of the option selections, as the following sample code shows: `<option value="small">small - $10.00</option>` Add a corresponding option_select0 and option_amount0 variable for each priced option. Priced options are supported only for Buy Now and Add to Cart buttons. Only one dropdown menu option selection can have priced options. • Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons • Not used with Donate or Buy Gift Certificate buttons	See description.
os1	Optional	Option selection of the buyer for the second option field, on1. If the option field is a dropdown menu or a set of radio buttons, each allowable value should be no more than 64 characters. If buyers enter this value in a text field, there is a 200-character limit. You can specify a maximum of 7 option selections (6 with Subscribe buttons) by incrementing the option selection index (os0 through os6). You can implement up to 5 option selections as dropdown menus and up to 2 option selections as test boxes. **NOTE:** A corresponding option field (on0 through on6) must be defined. • Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons • Not used with Donate or Buy Gift Certificate buttons	64 or 200 See description.

Name	Required or Optional	Description	Character Length
option_index	See description.	The cardinal number of the option field, on0 through on9, that has product options with different prices for each option. Include option_index if the option field with prices is not on0. ● Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons ● Not used with Donate or Buy Gift Certificate buttons Default – 0	

option_select0	Optional	For priced options, the value of the first option selection of the on0 dropdown menu. The values must match exactly, as the following sample code shows:
		
		`<option value="`**`small`**`">small - $10.00</option>`
		`...`
		`<input type="hidden" name="option_select0"`
		`value="`**`small`**`">`
		● Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons
		● Not used with Donate or Buy Gift Certificate buttons
			64

option_amount0	Optional	For priced options, the amount that you want to charge for the first option selection of the on0 dropdown menu. Use only numeric values; the currency is taken from the currency_code variable. For example:
		
		`<option value="small">small - $`**`10.00`**`...`
		`<input type="hidden"`
		`name="option_amount0"</option> value="`**`10.00`**`">`
		● Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons
		● Not used with Donate or Buy Gift Certificate buttons
			64

Name	Required or Optional	Description	Character Length

option_select1	Optional	For priced options, the value of the second option selection of the on0 dropdown menu. For example:
		
		`...`
		`<option value="`**medium**`">small -`
		`$10.00</option>...`
		`<input type="hidden" name="option_select"`
		`value="`**medium**`">`
		
		You can specify a maximum of 10 option selections by incrementing the option selection index (option_select0 through option_select9).
		
		NOTE: A corresponding option selection in os0 must also be set.
		
		• Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons
		• Not used with Donate or Buy Gift Certificate buttons
			64

option_amount1	Optional	For priced options, the amount that you want to charge for the second option selection of the on0 dropdown menu. For example:
		
		`...`
		`<option value="small">medium - $`**15.00**`</option>`
		`...`
		`<input type="hidden" name="option_amount1"`
		`value="`**15.00**`">`
		
		You can specify a maximum of 10 option amounts by incrementing the option amount index (option_amount0 through option_amount9).
		
		NOTE: A corresponding option selection in os0 must also be set.
		
		• Optional for Buy Now, Add to Cart, Subscribe, Automatic Billing, and Installment Plan buttons
		• Not used with Donate or Buy Gift Certificate buttons
			64

HTML Variables for Payment Transactions

HTML variables for payment transactions provide information about entire payments, regardless of the individual items involved with the payment. You can use these variables with Add to Cart buttons and the Cart Upload command.

HTML Variables for Payment Transactions

Name	Required or Optional	Description	Character Length
address_override	Optional	1 – The address specified with automatic fill-in variables overrides the PayPal member's stored address. Buyers see the addresses that you pass in, but they cannot edit them. PayPal does not show addresses if they are invalid or omitted.	1
currency_code	Optional	The currency of the payment. The default is USD.	3
custom	Optional	Pass-through variable for your own tracking purposes, which buyers do not see. Default – No variable is passed back to you.	256
handling	Optional	Handling charges. This variable is not quantity-specific. The same handling cost applies, regardless of the number of items on the order. Default – No handling charges are included.	
invoice	Optional	Pass-through variable you can use to identify your invoice number for this purchase. Default – No variable is passed back to you.	127
tax_cart	Optional	Cart-wide tax, overriding any individual item tax_x value	
weight_cart	Optional	If profile-based shipping rates are configured with a basis of weight, PayPal uses this value to calculate the shipping charges for the payment. This value overrides the weight values of individual items. Allowable values are decimals numbers, with 2 significant digits to the right of the decimal point.	
weight_unit	Optional	The unit of measure if weight_cart is specified. Allowable values are: ● lbs ● kgs The default value is lbs.	

HTML Variables for Shopping Carts

HTML variables for shopping carts can be used with Add to Cart buttons, as well as with third-party shopping carts or custom carts that initiate payment processing with the Cart Upload command.

HTML Variables for Shopping Carts

Name	Required or Optional	Description	Character Length
add	See description.	Add an item to the PayPal Shopping Cart. This variable must be set as follows: `add="1"` The alternative is the `display="1"` variable, which displays the contents of the PayPal Shopping Cart to the buyer. If both `add` and `display` are specified, `display` takes precedence.	1
amount_*x*	Required	The amount associated with item *x*. To pass an aggregate amount for the entire cart, use `amount_1`. Applies only to the Cart Upload command.	
business	Required	Your PayPal ID or an email address associated with your PayPal account. Email addresses must be confirmed.	
discount_amount _cart	Optional	Single discount amount charged cart-wide. It must be less than the selling price of all items combined in the cart. This variable overrides any individual item `discount_amount_`*x* values, if present. Applies only to the Cart Upload command.	
discount_amount _*x*	Optional	The discount amount associated with item *x*. It must be less than the selling price of the associated item. This amount is added to any other item discounts in the cart. Applies only to the Cart Upload command.	
discount_rate_c art	Optional	Single discount rate (percentage) to be charged cart-wide. It must be set to a value less than 100. The variable overrides any individual item `discount_rate_`*x* values, if present. Applies only to the Cart Upload command.	
discount_rate_*x*	Optional	The discount rate associated with item *x*. It must be set to a value less than 100. The variable takes into account all quantities of item *x*. Applies only to the Cart Upload command.	
display	See description.	Display the contents of the PayPal Shopping Cart to the buyer. This variable must be set as follows: `display="1"` The alternative is the `add="1"` variable, which adds an item to the PayPal Shopping Cart. If both `add` and `display` are specified, `display` takes precedence.	1

Name	Required or Optional	Description	Character Length
handling_ cart	Optional	Single handling fee charged cart-wide. If `handling_cart` is used in multiple **Add to Cart** buttons, the `handling_cart` value of the first item is used.	
item_name_*x*	Required	The name associated with item *x*. To pass an aggregate name for the entire cart, use `item_name_1`. Applies only to the Cart Upload command.	
paymentaction	Optional	Indicates whether the payment is a final sale or an authorization for a final sale, to be captured later. Allowable values are: - sale - authorization - order The default value is `sale`. Set the value to `authorization` to place a hold on the PayPal account for the authorized amount. Set the value to `order` to authorize the payment without placing a hold on the PayPal account. **IMPORTANT:** If you set `paymentaction` to `order`, use the Authorization & Capture API to authorize and capture the payment payments. The Merchant Services on the PayPal website let you capture payments only for authorizations, not for orders.	
shopping_url	Optional	The URL of the page on the merchant website that buyers go to when they click the **Continue Shopping** button on the PayPal Shopping Cart page.	
upload	See description	Upload the contents of a third-party shopping cart or a custom shopping cart. This variable must be set as follows: `upload="1"` The alternatives are the `add="1"` variable and the `display="1"` variables, which are used with the PayPal Shopping Cart.	1

HTML Variables for Recurring Payments Buttons

Recurring Payments buttons are:

- Subscribe buttons
- Automatic Billing buttons

- Installment Plan buttons

HTML variables for recurring payments buttons set terms for different kinds of PayPal automatic payment plans.

Subscribe Button HTML Variables

Name	Required or Optional	Description	Character Length
business	Required	Your PayPal ID or an email address associated with your PayPal account. Email addresses must be confirmed.	
item_name	Optional	Description of item being sold. If you are collecting aggregate payments, the value can be a summary of all items purchased, a tracking number, or a generic term such as "subscription." If this variable is omitted, buyers see a field in which they can enter the item name.	127
currency_code	Optional	The currency of prices for trial periods and the subscription. The default is USD.	3
a1	Optional	Trial period 1 price. For a free trial period, specify 0.	
p1	See description.	Trial period 1 duration. Required if you specify a1. Specify an integer value in the allowable range for the units of duration that you specify with t1.	2
t1	See description.	Trial period 1 units of duration. Required if you specify a1. Allowable values are: • D – for days; allowable range for p2 is 1 to 90 • W – for weeks; allowable range for p2 is 1 to 52 • M – for months; allowable range for p2 is 1 to 24 • Y – for years; allowable range for p2 is 1 to 5	1
a2	Optional	Trial period 2 price. Can be specified only if you also specify a1.	
p2	See description.	Trial period 2 duration. Required if you specify a2. Specify an integer value in the allowable range for the units of duration that you specify with t2.	2
t2	See description.	Trial period 2 units of duration. Allowable values are: • D – for days; allowable range for p2 is 1 to 90 • W – for weeks; allowable range for p2 is 1 to 52 • M – for months; allowable range for p2 is 1 to 24 • Y – for years; allowable range for p2 is 1 to 5	1
a3	Required	Regular subscription price.	
p3	Required	Subscription duration. Specify an integer value in the allowable range for the units of duration that you specify with t3.	2

Name	Required or Optional	Description	Character Length
t3	Required	Regular subscription units of duration. Allowable values are: • D – for days; allowable range for p3 is 1 to 90 • W – for weeks; allowable range for p3 is 1 to 52 • M – for months; allowable range for p3 is 1 to 24 • Y – for years; allowable range for p3 is 1 to 5	1
src	Optional	Recurring payments. Subscription payments reoccur unless subscribers cancel their subscriptions before the end of the current billing cycle or you limit the number of times that payments recur with the value that you specify for srt. Allowable values are: • 0 – subscription payments do not recur • 1 – subscription payments recur The default is 0.	1
srt	Optional	Recurring times. Number of times that subscription payments recur. Specify an integer above 1. Valid only if you specify src="1".	2
sra	Optional	Reattempt on failure. If a recurring payment for a legacy subscription fails, in which the subscription ID starts with S-, PayPal attempts to collect the payment two more times before canceling the subscription; otherwise (when the subscription ID starts with I-), the profile is suspended after the attempt instead of cancelled. Allowable values are: • 0 – do not reattempt failed recurring payments • 1 – reattempt failed recurring payments before canceling or suspending The default is 1.	1
no_note	Required	Do not prompt buyers to include a note with their payments. Allowable values for Subscribe buttons: • 1 – hide the text box and the prompt For Subscribe buttons, always include no_note set to 1.)	1
custom	Optional	User-defined field which PayPal passes through the system and returns to you in your merchant payment notification email. Subscribers do not see this field.	255
invoice	Optional	User-defined field which must be unique with each subscription. The invoice number is shown to subscribers with the other details of their payments	127

Name	Required or Optional	Description	Character Length
modify	Optional	Modification behavior. Allowable values are: • 0 – allows subscribers only to sign up for new subscriptions • 1 – allows subscribers to sign up for new subscriptions and modify their current subscriptions • 2 – allows subscribers to modify only their current subscriptions The default value is 0.	1
usr_manage	Optional	Set to 1 to have PayPal generate usernames and initial passwords for subscribers.	1

Automatic Billing Button HTML Variables

Name	Required or Optional	Description	Character Length
max_text	Optional	A description of the automatic billing plan. The button creation tool uses the same value that you enter in the **Description** field. Your button passes the description to PayPal to augment the item name in authorization notices and transaction details. If you write the HTML code for your button manually, the value of max_text and the text above the button can differ.	
set_customer_limit	Required	Specify whether to let buyers enter maximum billing limits in a text box or choose from a list of maximum billing limits that you specify. Allowable values are: • max_limit_own – your button displays a text box for buyers to enter their own maximums above a minimum billing limit that you set with the min_amount variable. • max_limit_defined – your button displays a dropdown menu of product options with prices to let buyers choose their maximum billing limits.	
min_amount	Optional	The minimum monthly billing limit, if you have one. Valid only if set_customer_limit = max_limit_own.	

Installment Plan Buttons HTML Variables

Name	Required or Optional	Description	Character Length
disp_tot	Optional	Display the total payment amount to buyers during checkout Allowable values are: • Y – display the total • N – do *not* display the total The default is N.	1
option_index	Required	• If the button offers a single plan, use 0, or use a number *not* used for option fields without prices, such as size and color. • If the button offers plan options, the cardinal number of the option field, on0 through on9, with plan payment options. Include option_index if the number for the single plan or options field is *not* 0.	1

option_select*n*	Required	• If the button offers a single plan, the value attribute of a hidden input field named os*n*. The value attributes of both elements must match, as the following sample code shows
		
		`<input type="hidden" name="os`*n*`" value="`**pay-in-4**`">`
		`...`
		`<input type="hidden" name="option_select`*n*`"`
		`value="`**pay-in-4**`">`
		• If the button offers plan options, the value attribute of the radio button for plan option *n*. The value attributes of both elements must match, as the following sample code shows:
		
		`<input type="radio" name="os`*n*`"`
		`    value="`**pay-in-4**`">Pay in 4 installments`
		`...`
		`<input type="hidden" name="option_select`*n*`"`
		`value="`**pay-in-4**`">`
			8

option_select*n*_ name	Required	• If the button offers plan options, text next to the radio button for plan option *n* • If the button offers a single plan, text that describes the plan features For example, you might use the text "Pay in 4 installments."	

Name	Required or Optional	Description	Character Length
option_select*n_*type	Required	Whether the single plan or plan option *n* offered by the button is paid in full, in equal periods, or in variable periods Allowable values are: • F – pay in full, at checkout • E – pay in equal periods, beginning at checkout or sometime later • V – pay in variable periods, beginning at checkout	1
option_select*n_*a*m*	Required	Amount of payment *m*. If the value of option_select*n_*type is E, the value of this variable applies to all payments in the plan.	
option_select*n_*p*m*	Required	Duration of payment period *m*. Specify the number of time units with option_select*n_*t*m*. If the value of option_select*n_*type is E, the value of this variable applies to all payments in the plan.	
option_select*n_*t*m*	Required	Units of time for payment period *m*. Allowable values are: • D – for days; allowable range for p3 is 1 to 90 • W – for weeks; allowable range for p3 is 1 to 52 • M – for months; allowable range for p3 is 1 to 24 • Y – for years; allowable range for p3 is 1 to 5	1
option_select*n_*n*m*	Required.	Number of payments that are the same, in amount and duration, as this one. • If the value of option_select*n_*type is F, set the value to 1. • If the value of option_select*n_*type is E, set the value to the number of payments in the plan. • If the value of option_select*n_*type is F and no subsequent payments are the same as this one, set the value to 1.	1

HTML Variables for Displaying PayPal Checkout Pages

HTML variables for displaying PayPal checkout pages control how the pages appear and function.

HTML Variables for Displaying PayPal Checkout Pages

Name	Required or Optional	Description	Character Length
page_style	Optional	The custom payment page style for checkout pages. Allowable values are: • paypal – use the PayPal page style • primary – use the page style that you marked as primary in your account profile • page_style_name – use the custom payment page style from your account profile that has the specified name The default is primary if you added a custom payment page style to your account profile. Otherwise, the default is paypal.	30
image_url	Optional	The URL of the 150x50-pixel image displayed as your logo in the upper left corner of the PayPal checkout pages. Default – Your business name, if you have a PayPal Business account, or your email address, if you have PayPal Premier or Personal account.	1,024
cpp_cart_border _color	Optional	The HTML hex code for your principal identifying color. PayPal blends your color to white in a gradient fill that borders the cart review area of the PayPal checkout user interface. Valid value is 6 single-byte hexadecimal characters that represent an HTML hex code for a color. • Valid only for Buy Now and Add to Cart buttons and the Cart Upload command. • Not used with Subscribe, Donate, or Buy Gift Certificate buttons.	6
cpp_header_ image	Optional	The image at the top left of the checkout page. The image's maximum size is 750 pixels wide by 90 pixels high. PayPal recommends that you provide an image that is stored only on a secure (https) server. Deprecated for Buy Now and Add to Cart buttons and the Cart Upload command.	No limit

Name	Required or Optional	Description	Character Length
cpp_ headerback_ color	Optional	The background color for the header of the checkout page. Valid value is case-insensitive six-character, HTML hexadecimal color code in ASCII. Deprecated for Buy Now and Add to Cart buttons and the Cart Upload command.	6
cpp_ headerborder_co lor	Optional	The border color around the header of the checkout page. The border is a 2-pixel perimeter around the header space, which has a maximum size of 750 pixels wide by 90 pixels high. Valid value is case-insensitive six-character, HTML hexadecimal color code in ASCII. Deprecated for Buy Now and Add to Cart buttons and the Cart Upload command.	6
cpp_logo_image	Optional	A URL to your logo image. Use a valid graphics format, such as .gif, .jpg, or .png. Limit the image to 190 pixels wide by 60 pixels high. PayPal crops images that are larger. PayPal places your logo image at the top of the cart review area. **NOTE:** PayPal recommends that you store the image on a secure (https) server. Otherwise, web browsers display a message that checkout pages contain non-secure items. Valid value is 127 single-byte alphanumeric characters • Valid only for Buy Now and Add to Cart buttons and the Cart Upload command. • Not used with Subscribe, Donate, or Buy Gift Certificate buttons.	127
cpp_payflow_ color	Optional	The background color for the checkout page below the header. Valid value is case-insensitive six-character, HTML hexadecimal color code in ASCII. **NOTE:** Background colors that conflict with PayPal's error messages are not allowed; in these cases, the default color is white. Deprecated for Buy Now and Add to Cart buttons and the Cart Upload command.	6
lc	Optional	The language of the login or sign-up page that subscribers see when they click the Subscribe button. If unspecified, PayPal determines the language by using a cookie in the subscriber's browser. If there is no PayPal cookie, the default language is U.S. English.	2

Name	Required or Optional	Description	Character Length
no_note	Optional	Do not prompt buyers to include a note with their payments. Allowable values are: • 0 – provide a text box and prompt for the note • 1 – hide the text box and the prompt The default is 0.	1
cn	Optional	Label that appears above the note field. This value is not saved and does not appear in any of your notifications. If this variable is omitted, the default label above the note field is "Add special instructions to merchant." The cn variable is not valid with Subscribe buttons or if you include no_note="1".	40
no_shipping	Optional	Do not prompt buyers for a shipping address. Allowable values are: • 0 – prompt for an address, but do not require one • 1 – do not prompt for an address • 2 – prompt for an address, and require one The default is 0.	1
return	Optional	The URL to which PayPal redirects buyers' browser after they complete their payments. For example, specify a URL on your site that displays a "Thank you for your payment" page. Default – PayPal redirects the browser to a PayPal webpage.	1,024
rm	Optional	Return method. The FORM METHOD used to send data to the URL specified by the return variable. Allowable values are: • 0 – all shopping cart payments use the GET method • 1 – the buyer's browser is redirected to the return URL by using the GET method, but no payment variables are included • 2 – the buyer's browser is redirected to the return URL by using the POST method, and all payment variables are included The default is 0. **NOTE:** The rm variable takes effect only if the return variable is set.	1

Name	Required or Optional	Description	Character Length
cbt	Optional	Sets the text for the **Return to Merchant** button on the PayPal Payment Complete page. For Business accounts, the return button displays your business name in place of the word "Merchant" by default. For Donate buttons, the text reads "Return to donations coordinator" by default. **NOTE:** The cbt variable takes effect only if the return variable is set.	60
cancel_return	Optional	A URL to which PayPal redirects the buyers' browsers if they cancel checkout before completing their payments. For example, specify a URL on your website that displays a "Payment Canceled" page. Default – PayPal redirects the browser to a PayPal webpage.	1,024

HTML Variables for Filling Out PayPal Checkout Pages Automatically

HTML variables for filling out PayPal checkout pages automatically let you specify information about buyers. PayPal recommends that you include automatic fill-out variables with all of your payment buttons for consistent address handling in the checkout experience of your buyers.

NOTE: When you pass in address_override=1 or tax or shipping variables, PayPal displays the values in the payment widget. Also, PayPal hides the calculation widget, regardless of setting up shipping and tax rates in your Account Profile.

HTML Variables for Filling Out PayPal Checkout Pages Automatically for Buyers

Name	Required or Optional	Description	Character Length
address1	Optional	Street (1 of 2 fields)	100
address2	Optional	Street (2 of 2 fields)	100
city	Optional	City	40
country	Optional	Sets shipping and billing country.	2
email	Optional	Email address	127
first_name	Optional	First name	32
last_name	Optional	Last name	64

Name	Required or Optional	Description	Character Length
lc	Optional	Sets the language for the billing information/log-in page only. The default is US.	2
charset	Optional	Sets the character set and character encoding for the billing information/log-in page on the PayPal website. In addition, this variable sets the same values for information that you send to PayPal in your HTML button code. The default is based on the language encoding settings in your Account Profile.	
night_ phone_a	Optional	The area code for U.S. phone numbers, or the country code for phone numbers outside the U.S. PayPal fills in the buyer's home phone number automatically.	See description.
night_ phone_b	Optional	The three-digit prefix for U.S. phone numbers, or the entire phone number for phone numbers outside the U.S., excluding country code. PayPal fills in the buyer's home phone number automatically.	See description.
night_ phone_c	Optional	The four-digit phone number for U.S. phone numbers. PayPal fills in the buyer's home phone number automatically.	See description.
state	Optional	State code	2
zip	Optional	Postal code	32

HTML Variables for the Instant Update API

HTML variables for the Instant Update API set up the Cart Upload command for the Instant Update API callback. Establish your own Instant Update callback server before you use these variables.

Instant Update Variables to Set Up a Payment for the Instant Update API: Some Instant Update variables set up the Cart Upload to use your callback server. Include the following required variables in the Cart Upload command to have PayPal send Instant Update requests to your callback server. Include the following optional variables when appropriate.

HTML Variables to Set Up an Instant Update Payment

Name	Required or Optional	Description	Character Length
callback_url	Required	The URL of your Instant Update callback server	1024
callback_timeout	Required	The timeout in seconds for callback responses from your Instant Update callback server. After exceeding the timeout, PayPal uses the fallback values on the Review Your Payment page for tax, shipping, and insurance. Allowable values are 1-6. PayPal recommends the value 3. **IMPORTANT:** Use values other than 3 only when instructed to do so by your PayPal representative..	1
callback_version	Optional	The version of the Instant Update API that your callback server uses. The default is the current version.	
fallback_tax_amount	Optional	Tax amount to use as a fallback, if the callback response times out	
fallback_shipping_option_name_x	Required	Name and label of shipping option *x* to use as a fallback, if the callback response times out. For example, "Express 2 days". You can include a maximum of 10 shipping options as fallbacks. Substitute *x* with ordinal numbers, starting with 0. Iinclude 1 instance of this variable, with its index (*x*) set to 0. If you include just 1 instance, include fallback_shipping_option_is_default_x with its index (*x*) set to 0 and its value set to 1. Allowable values for *x* are 0-9.	50
fallback_shipping_option_amount_x	Required	Shipping amount for option *x* to use as a fallback, if the response times out. Allowable values for *x* are 0-9.	
fallback_shipping_option_is_default_x	Required	Indicates that shipping option *x* is the default and should be selected in the dropdown menu as a fallback, if the response times out. Only one shipping option can be the default for buyers. Check that you set 1 instance only of fallback_shipping_option_is_default_x to the value 1. Allowable values are: ● 1 – shipping option *x* is the default shipping option ● 0 – shipping option *x* is not the default shipping option Allowable values for *x* are 0-9.	1

Name	Required or Optional	Description	Character Length
fallback_insurance_option_offered	Optional	Indicates that insurance is offered. PayPal ignores this HTML variable if fallback_insurance_amount is omitted or the value is 0 or less. Allowable values are: ● 1 – insurance is offered ● 0 – insurance is not offered	1
fallback_insurance_amount	Optional	Insurance amount to use as a fallback, if the callback response times out. Include the fallback_insurance_option_offered HTML variable if you specify an insurance amount. The fallback insurance amount applies to all shipping options that you specify.	

Instant Update Variables for Dimensions of Individual Items: Shipping charges are calculated sometimes by using the dimensions of individual items in the shopping cart. Include the following optional dimensional variables below in the Cart Upload command to provide the information to your callback server.

HTML Variables to Set Up an Instant Update Payment for Dimension-Based Shipping Charges

Name	Required or Optional	Description	Character Length
height_*x*	Optional	Height of item *x* in the shopping cart. Allowable values are positive integers.	
height_unit	Optional	Unit of measure for the values specified by the height_x values. Allowable values are any values that you choose to provide. PayPal passes the value to your callback server in callback requests.	
width_*x*	Optional	Width of item *x* in the shopping cart. Allowable values are positive integers.	
width_unit	Optional	Unit of measure for the value specified by width_x Allowable values are any values that you choose to provide. PayPal passes the value to your callback server in callback requests.	
length_*x*	Optional	Length of item *x* in the shopping cart. Allowable values are positive integers.	

Name	Required or Optional	Description	Character Length
length_unit	Optional	Unit of measure for the value specified by length_x Allowable values are any values that you choose to provide. PayPal passes the value to your callback server in callback requests.	